Direct Mellind Linear 1-y= ao + a, x Buadratie 1y= a0 + 9, x + a2x Cubic: y= ao + a, x + a2x2+ a3x3 Newton Divided Difference Linear 1f(x0) = bo + b, (x - x0) Buadratie: f(x)= bo + b, (x-x0)(m-xa) + 62 (2-20) (2-21) Cubic 1f(x) = bo + b, (x-x0) + bz (x-x0)(x-x1) + b3 (n-x0)(n-n1)(n-x2) bo = f(20) b, = f(a0, n1) = f(a1) - f(20) br = f(no, n, n2) = f(n, n2) - f(no, n1)

Date: Lagrange Method 20. Turear: $\frac{V(t)}{V(t)} = \frac{(t-t_1)}{(t_0-t_1)} \frac{V(t_0)}{(t_1-t_0)} \frac{t}{(t_1-t_0)} \frac{V(t_1)}{(t_1-t_0)}$ Quadrastic :- $\frac{v(t)=(t-t_1)(t-t_2)v(t_0)+(t-t_0)(t-t_2)v(t_0)}{(t_0-t_1)(t_0-t_2)(t_0)+(t_1-t_0)(t_1-t_2)v(t_0)}$ Cubic